

# HD 860 GigaBUD Installation Guide



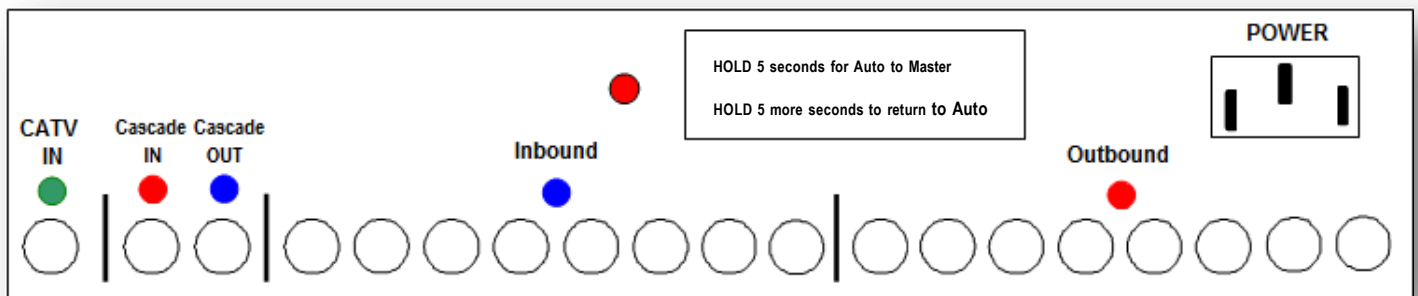
The System is UL Listed and FCC compliant (Part 15) on a Category 5e/6/7 modular jack and platform.

**WARNING:** Failure to follow this guide can lead to malfunction of the system and invalidation of the warranty.

**Figure 1.** Front of GigaBUD



**Figure 2.** Back of GigaBUD



## 1. What You'll Need

- A TIA/EIA-568 Category 5e/6/7 wiring plant
- A 35 dB amplifier with gain and tilt
- Coaxial cable cannot exceed 400' if RG-6 or 600' if RG-11 (Use single mode fiber for distances greater than 600')
- Category 5e/6/7 patch cables
- Short RG-6 coaxial cables to interconnect the GigaBUDs in the same closet
- RF meter capable of measuring analog and digital signals across the CATV spectrum, C/N for analog, and MER for digital channels
- A HD GigaBOB for each TV or video-enabled PC in the system
- One RF 20 dB TAP

**WARNING:** The category of the cable must be matched throughout the system. For example, use *only* Category 5e or Category 6 or Category 7.

## 2. RF Input

Make sure that the input coming into the system is as follows (assume a 35 dB amplifier with gain and tilt is used prior to input):

	Analog Only	Combined Digital/Analog	Digital Only
Level	23 dBmV <i>flat</i>	23dBmV(A)/17dBmV(D)	20 dBmV <i>flat</i>
C/N	45 dB or greater	45 dB or greater	
MER		32 dB or greater	32 dB or greater

You are responsible for recording the level and quality for the channels, which can be taken from one of the red outbound coax ports. In addition, the 240 MHz pilot tone shall also be measured and recorded.

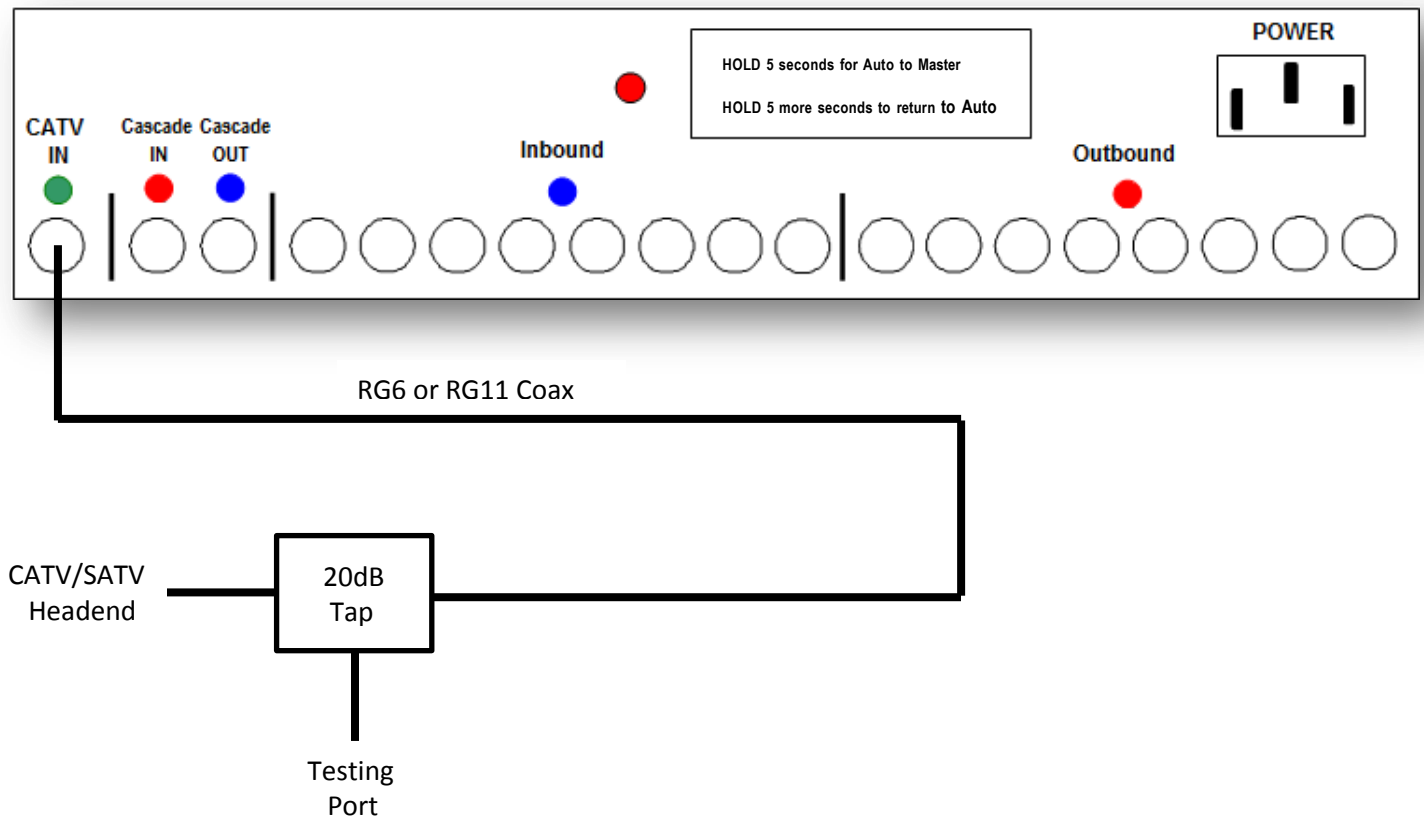
## 3. Mounting the GigaBUD

Each GigaBUD is 2U high. Mount to racks accordingly.

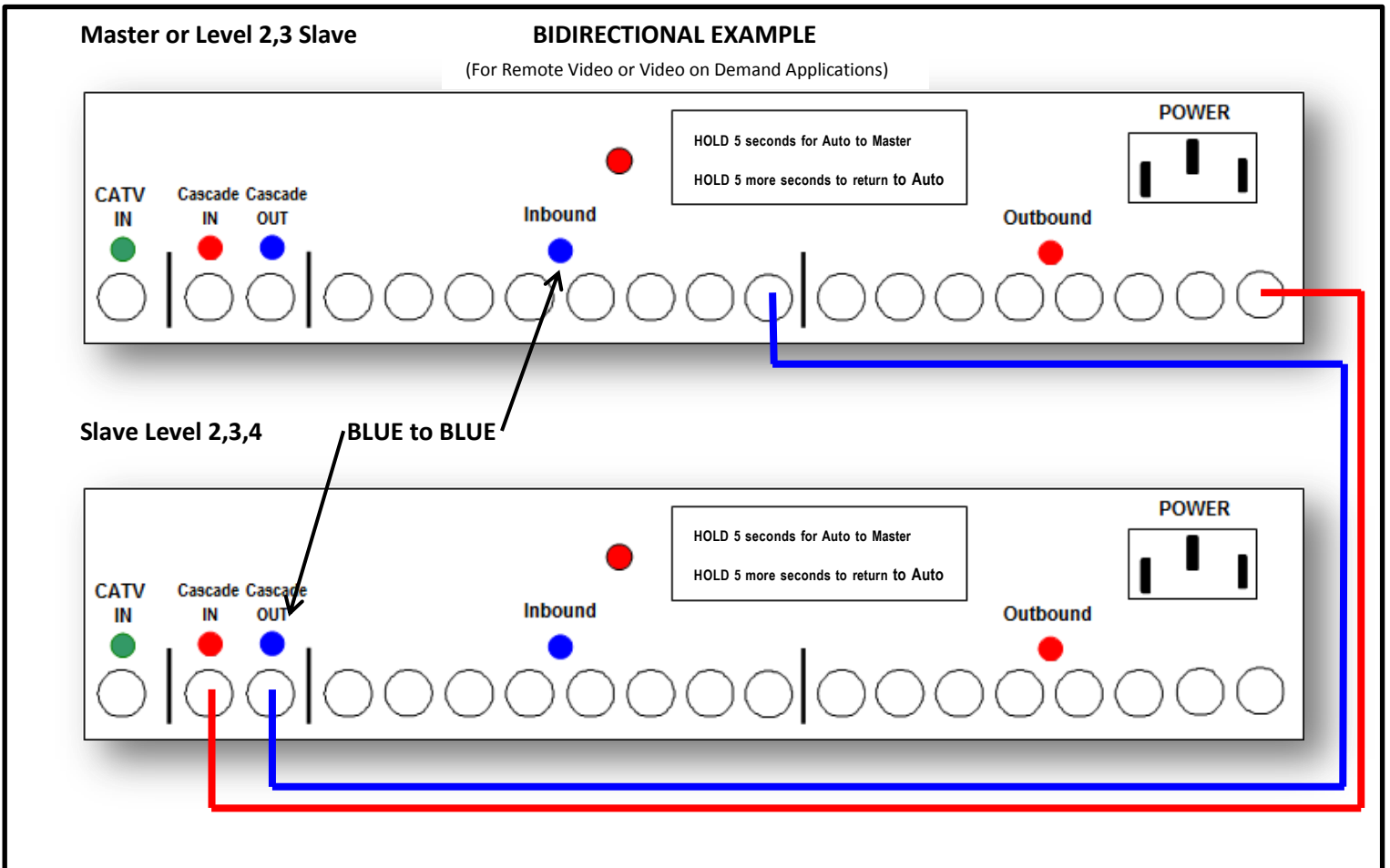
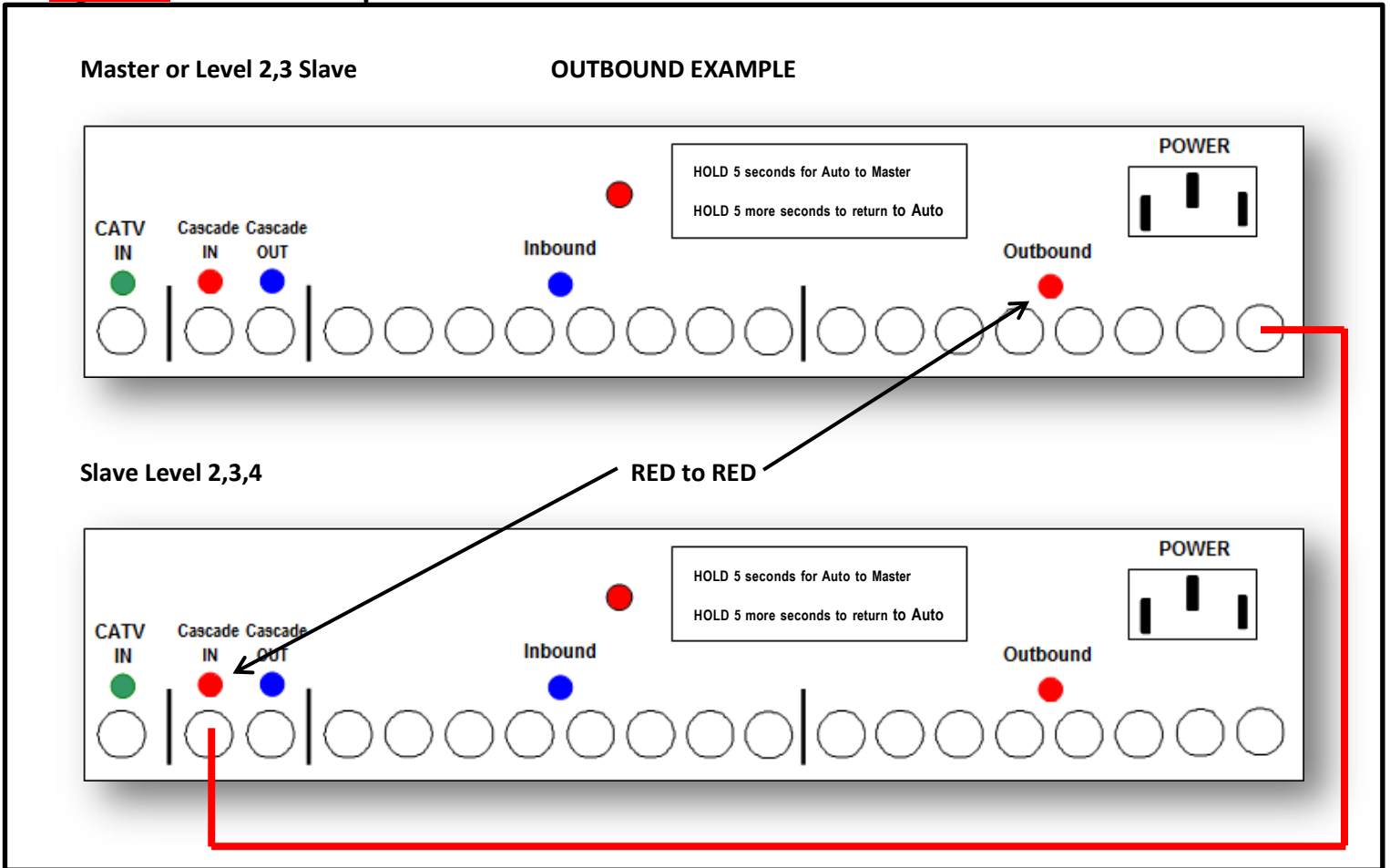
## 4. GigaBUD Setup

Configure the input following **Figure 3**. Configure the cascades following **Figure 4**. Configure the front panel patch cord connections following **Figure 5**.

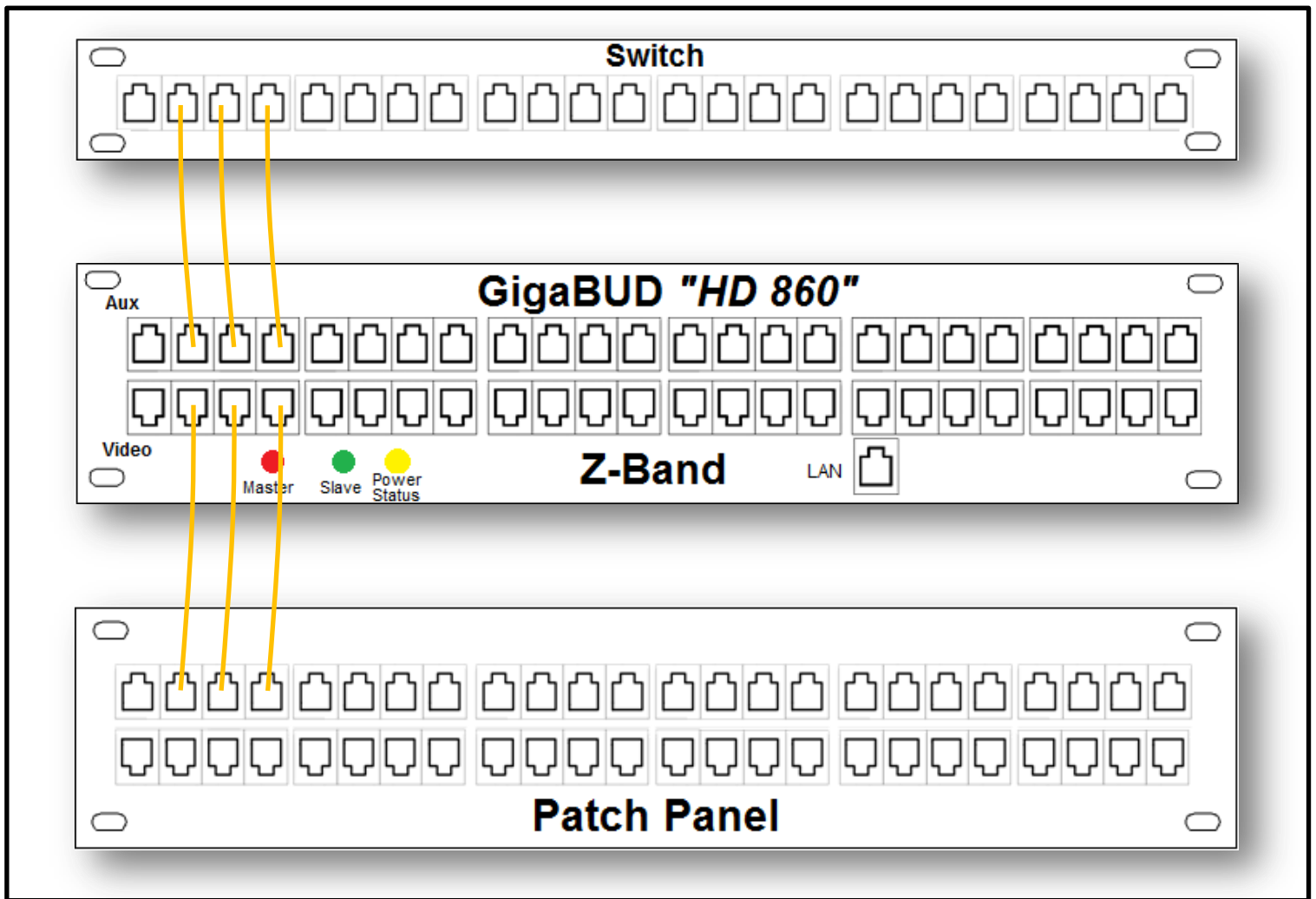
**Figure 3. Input Setup**



**Figure 4. Cascade Setup**



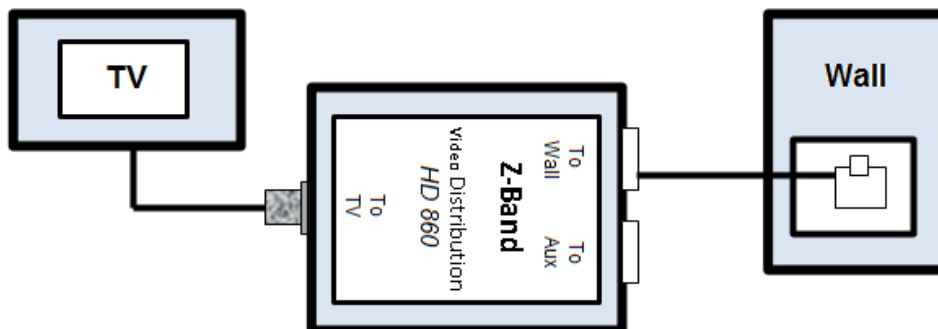
**Figure 5. Front Panel Setup**



NOTE: If sending data over IP, be sure the Gigabit Ethernet switch is using auto-negotiation.

**Figure 6. GigaBOB Setup**

To connect the GigaBOB, follow **Figure 6**.



**Figure 7. Reverse Channel/Fiber Set-up**

Please contact Z-Band engineering department to discuss return path video and/or fiber distribution set up.